Date: Fri, 10 Jun 94 01:30:27 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #647
To: Info-Hams

Info-Hams Digest Fri, 10 Jun 94 Volume 94 : Issue 647

Today's Topics:

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 9 Jun 94 12:29:18 -0500
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!noc.near.net!
news.tufts.edu!news.hnrc.tufts.edu!jerry@network.ucsd.edu
Subject: "73's"
To: info-hams@ucsd.edu

In article <2t2dgn$a4b@news.iastate.edu>, wjturner@iastate.edu (Weuchsowagan)
writes:
> I will not argue with what your dictionary says, but I still maintain
                                                        ^
> that it is not correct, and that the dictionary is not the place to
> look, anyway.

How should we cite you? Article <2t2dgn$a4b@news.iastate.edu>?
The New York Times Manual of Style and Usage says: Plurals of . . . figures.
These plurals are usually formed by adding 's as in . . . size 8's.

:-)
'Course the Associated Press Style Book says, "No apostrophes, an exception to
Webster's New World guidline under 'apostrophe.'" And Turabian, too,
specifies, ". . . s alone (i.e., not apostrophe and s)"

Date: 10 Jun 94 02:13:48 GMT
From: sdd.hp.com!col.hp.com!srgenprp!jandrews@hplabs.hpl.hp.com
Subject: Any one transvert using TS-450SAT?
To: info-hams@ucsd.edu

Hi there,

I am getting a transverter from Down East Microwave and was thinking
of using it with my Kenwood TS-450 SAT. Anyone know if there is a low level
TX coming out on one of the many connectors on this rig? I would like
not to have to add a connector if tx appears somwwhere already.

Thanks for any help.

Backup choices are RCI-2950 (have to modify for low level TX) and

FT-107M (has transverter output, but not as nice to use).

-jim

--
Jim Andrews   h
Engineering Productivity Group   h
Hewlett Packard   hhhhh   ppppp
Microwave Instruments Division   h   h   p   p
Santa Rosa, CA   h   h   ppppp
e-mail: jandrews@sr.hp.com   p
amateur packet mail: kc6pjw@kc6pjw.#nocal.ca.usa   p

Date: 9 Jun 1994 18:50:27 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!gatech!udel!news2.sprintlink.net!news.sprintlink.net!bga.com!patm@network.ucsd.edu
Subject: FCC Database
To: info-hams@ucsd.edu

George Turner (georget@max.tiac.net) wrote:
: Could some tell me how to get a ham 's name and address using his
: call sign. Thought that I seen a ftp or usenet address that had the data base.

You can telnet to the callsign server:

           callsign.cs.buffalo.edu 2000

at the >> prompt, type 'call x9xxx'.

Type 'help' for additional search modes (zip code, name, etc.)

Patrick McGuire, WA8PLR
Austin TX

Date: Thu, 9 Jun 1994 17:50:58 +0000
From: ihnp4.ucsd.edu!swrinde!pipex!demon!llondel.demon.co.uk!dave@network.ucsd.edu
Subject: GB2RS News 12th June 1994
To: info-hams@ucsd.edu

Good morning. It's Sunday the 12th of June and here is the GB2RS news
broadcast, prepared by the Radio Society of Great Britain.

First the headlines:-

Packet radio is to feature on BBC TV;

A Microwave Round Table meeting takes place next Sunday; and

Look out for an expedition to the Scottish Isles this week.

BBC Television cameras were at RSGB Headquarters last week filming for an item on packet radio to be featured shortly in the BBC2 series "The Net". The series deals with everything to do with computers and is broadcast at 8pm on Wednesday evenings.

An RSGB Microwave Round Table meeting takes place next Sunday the 19th of June at the Crawley Amateur Radio Club premises at Pease Pottage, near Crawley, West Sussex. The event is organised by the RSGB Southern Microwave Group and commences at 10am. The attractions include technical talks, calibration and alignment facilities, and the usual round table discussions on current matters of interest. There will also be a bring and buy stand, as well as hot drinks and snacks. All are welcome. For further details telephone Mike, G3LYP, on 0494 881298.

An expedition to the Western Isles of Scotland starts today, Sunday the 12th and continues until next Friday. GM7BXA, GM7HSP and GM7DKX are scheduled to operate on VHF from the Isle of Mull today, the Isle of Skye on Wednesday, South Uist on Friday, Benbecula on Saturday and North Uist next Sunday. Operation will start at around 9am and will continue until 10pm on 144.222, 50.122 and 50.222MHz, plus the calling frequencies. HF activity will be provided by GM0NEB on 80, 40 and 20 metres CW and SSB.

Last weekend RSGB HQ held its annual open day. Despite continuous rain, everyone who attended had a good day. Next year's HQ open day is scheduled for Saturday the 17th of June 1995. If you haven't been to the Headquarters building, put this date in your diary now.

Last Sunday, another RSGB Regional Meeting took place, this time at Brighouse in West Yorkshire. Members and non-members came along to meet members of staff and volunteer officials, and a lively discussion took place. The next Open Meeting is on Saturday, the 22nd of October in Bristol.

There is still time to nominate someone under eighteen for the prestigious title Young Amateur of the Year. This annual award is sponsored by the RSGB and the Radiocommunications Agency, together with representatives from the amateur and professional radio industry. In addition to the title, the winner and runner-up qualify for a number of prizes. If you know of a young person who could qualify, do not hesitate to ask for a nomination form. Full details of the Young Amateur of the Year award can be found in the April edition of RadCom, or can be

obtained by telephoning Justine Hodges at RSGB Headquarters on 0707 659015.

The callsign GB5GS will be aired from the Goodwin Sands on the evening of Thursday the 23rd of June by members of the East Kent Radio Society. This will be a new WAB square for many as it is normally under water. Operation will be from approximately 6.30pm to 8pm, depending on the tide, on the 80 and 40 metre bands.

The North Wakefield Radio Club and the Barnsley Radio Club have combined to form the "Yorkshire Pudding Contest Group" under the callsign G4OOC. This call belonged to the late Jack Martin who was a much liked and well known character throughout Yorkshire and was reallocated with the permission of his family. The callsign will be used for all of the clubs' combined contests as a mark of respect and to honour the many good deeds that Jack Martin did in the name of amateur radio .

A new RSGB Liaison Officer (RLO) has been appointed for Hertfordshire. He is John Rudd, G7OCI, and his address is 23 Grange Gardens, Ware, Hertfordshire SG12 9NE. His telephone number is 0920 466639. RLOs hold a wide range of information and they are available to help any RSGB member seeking advice.

Now some items of HF DX news from the weekly RSGB DX News Sheet which is edited by Brendan McCartney, G4DYO.

Date: 9 Jun 94 16:23:00 GMT
From: dog.ee.lbl.gov!agate!iat.holonet.net!michaelr!ray.wade@ucbvax.berkeley.edu
Subject: Ignition Noise Help Wante
To: info-hams@ucsd.edu

On 06-06-94 DAVE PHILLIPS wrote to ALL...

DP> HELP!
DP>
DP> I am attempting to use my HF rig mobile in my 1988 Chevy Suburban.
DP> However, I h
DP> ave so much
DP> ignition noise as to make it not practical on the road.
DP>
DP> I would like some suggestions on how to eliminate ignition noise in a
DP> Chevrolet
DP> using the
DP> high power ignition system with the Throttle Body Fuel Injection
DP> system.
DP>

DP> I have already tried the following, none of which had much effect;
DP>
DP>   1. Isolated and grounded all feed line (RG8x) shields to the body.
DP>   2. Placed split ferrite cores on primary and each secondary
DP> ignition lead.
DP>   3. Added extra copper braid shield from body pannels and hood to
DP> frame.
DP>   4. Added extra copper braid shields from engine to frame.
DP>   5. Added extra copper braid shield engine block to coil frame.
DP>   6. Shortened primary radio power lead to nearest battery
DP> connection and use
DP>   shielded cable.
DP>
DP> This sucker is still LOUD. Also, I have noted that when another
DP> vehicle of the
DP> same make and model is near, I can hear them also quite clearly in my
DP> reciever.
DP> Has anyone out there run into this problem and found a reliable
DP> method of coun
DP> tering it ????????
DP> ?????????
DP>
DP> Dave Phillips   KB7JS
DP>
DP> Phoenix, AZ, USA

Run #12 or larger (stranded) from radio directly to the vehicle
battery. Both sides, + and -. The battery acts as a BIG filter/
condenser. Be sure to put fuses at battery ends. We don't want
to melt the wiring if it shorts! This has been the top-of-the-
list for me.

K5JCM Tulsa

 * OFFLINE 1.56 * ... Incontinence Hotline... can you hold?
.....

Date: 9 Jun 94 23:07:39 GMT
From: agate!msuinfo!harbinger.cc.monash.edu.au!news.cs.su.oz.au!metro!ipso!
rwc@ucbvax.berkeley.edu
Subject: IPS Daily Report - 09 June 94
To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT
ISSUED AT 9/2330Z JUNE 1994 BY IPS RADIO AND SPACE SERVICES
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.

SUMMARY FOR 9 JUNE AND FORECAST UP TO 12 JUNE

IPS Warning 16 was issued on 08 June and is current
for interval June 11-13.

1A. SOLAR SUMMARY
Activity: low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 083/024

1B. SOLAR FORECAST

	10 June	11 June	12 June
Activity	Low	Low	Low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number : 085/027

1C. SOLAR COMMENT
None.

2A. MAGNETIC SUMMARY
Geomagnetic field at Learmonth: quiet to unsettled

Estimated Indices :	A	K	Observed A Index 8 June
Learmonth	07	2233 1211	
Fredericksburg	10		09
Planetary	12		10

Observed Kp for 8 June: 4233 2222

2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
10 Jun	16	Unsettled to active.
11 Jun	20	Active.
12 Jun	25	Active.

2C. MAGNETIC COMMENT
None.

3A. GLOBAL HF PROPAGATION SUMMARY

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
09 Jun	normal	normal	normal

PCA Event : None.
3B. GLOBAL HF PROPAGATION FORECAST

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
10 Jun	normal	fair	poor
11 Jun	normal	fair	poor
12 Jun	fair	poor	poor

3C. GLOBAL HF PROPAGATION COMMENT
Degraded global HF propagation conditions are expected in association
with geomagnetic activity forecast for 11-13 June. (Coronal hole).

4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY
MUFs at Sydney were near predicted monthly values

Observed T index for 09 June: 29

Predicted Monthly T Index for June is 30.

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE	T-index	MUFs
10 Jun	25	Near predicted monthly values.
11 Jun	20	Near predicted monthly values.
12 Jun	20	Near predicted monthly values.

4C. AUSTRALIAN REGION COMMENT
Strong sporadic E observed at times. Degraded HF comms expected
during interval June 11-13.

--
IPS Regional Warning Centre, Sydney |IPS Radio and Space Services
email: rwc@ips.oz.au fax: +61 2 4148331 |PO Box 5606
RWC Duty Forecaster tel: +61 2 4148329 |West Chatswood NSW 2057
Recorded Message tel: +61 2 4148330 |AUSTRALIA

Date: 5 Jun 94 19:29:51 GMT
From: boulder!riker.cs.colorado.edu!heuring@uunet.uu.net
Subject: License Renewal
To: info-hams@ucsd.edu

What's the current procedure for renewing my ticket? And how soon

can I do it before the expiration date?

--

 Vincent Heuring   Dep't of Electrical & Computer Engineering
 University of Colorado at Boulder   Boulder CO 80309-0425
 heuring@cs.Colorado.EDU   o) 303-492-8751   h) 303-449-8868

Date: 10 Jun 94 04:45:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS$161.2L.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT $ORBS-161.N
2Line Orbital Elements 161.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX June 10, 1994
BID: $ORBS-161.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:
1 AAAAAU 00 0 0 BBBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10
1 14129U 83058B   94150.69677441 -.00000061 00000-0 10000-3 0 2876
2 14129 27.1154 325.0714 6022081 182.4311 172.2849 2.05880205 82429
UO-11
1 14781U 84021B   94159.58005905 .00000144 00000-0 32323-4 0 6999
2 14781 97.7865 174.7086 0011152 302.8221 57.1910 14.69217542549042
RS-10/11
1 18129U 87054A   94159.90407672 .00000044 00000-0 31226-4 0 9084
2 18129 82.9230 334.9649 0013215 50.4111 309.8211 13.72338053348777
AO-13
1 19216U 88051B   94157.28362721 -.00000630 00000-0 10000-4 0 9230
2 19216 57.7964 248.7429 7212622 343.0560   1.9835 2.09726498 45785
FO-20
1 20480U 90013C   94157.45457424 .00000028 00000-0 13632-3 0 6959
2 20480 99.0344 311.3041 0541277   3.8142 356.6842 12.83226187202752
AO-21
1 21087U 91006A   94157.40570894 .00000094 00000-0 82657-4 0 4773

2 21087 82.9402 150.6882 0036807 111.8581 248.6496 13.74540847168102
RS-12/13
1 21089U 91007A   94156.58678752 .00000043 00000-0 29790-4 0 6984
2 21089 82.9214 20.0542 0029669 137.8770 222.4693 13.74041810167052
ARSENE
1 22654U 93 31 B 94148.14207754 -.00000051 00000-0 00000 0 0 2215
2 22654   1.8240 100.0387 2920689 182.3578 176.3320 1.42202262   918
UO-14
1 20437U 90005B   94157.23861139 -.00000038 00000-0 21101-5 0   04
2 20437 98.5848 242.1624 0010423 220.2693 139.7718 14.29844994228029
AO-16
1 20439U 90005D   94156.73481228 .00000030 00000-0 28514-4 0 7997
2 20439 98.5957 242.8851 0010618 223.5361 136.4969 14.29899297227965
DO-17
1 20440U 90005E   94156.76023471 .00000036 00000-0 31082-4 0 7994
2 20440 98.5973 243.2299 0010714 222.5466 137.4883 14.30038782227982
WO-18
1 20441U 90005F   94157.22514543 -.00000081 00000-0 -14246-4 0 8011
2 20441 98.5958 243.6917 0011334 221.5982 138.4365 14.30012443228059
LO-19
1 20442U 90005G   94157.20405622 .00000024 00000-0 26325-4 0 7988
2 20442 98.5980 243.9234 0011512 222.2726 137.7572 14.30108993228061
UO-22
1 21575U 91050B   94157.69084411 .00000043 00000-0 29134-4 0 5024
2 21575 98.4354 232.4004 0007618 329.4237 30.6509 14.36917795151576
KO-23
1 22077U 92052B   94158.44314725 -.00000037 00000-0 10000-3 0 3970
2 22077 66.0817 300.3826 0014038 289.0245 70.9248 12.86286506 85531
AO-27
1 22825U 93061C   94157.72326327 .00000005 00000-0 19869-4 0 2968
2 22825 98.6523 233.6335 0007784 242.3709 117.6684 14.27625201 36194
IO-26
1 22826U 93061D   94157.21446021 .00000023 00000-0 27093-4 0 2965
2 22826 98.6522 233.1665 0008350 244.4511 115.5800 14.27729220 36125
KO-25
1 22830U 93061H   94157.71795359 .00000011 00000-0 21962-4 0 3019
2 22830 98.5510 231.0277 0011336 203.1377 156.9297 14.28055571 36202
NOAA-9
1 15427U 84123A   94159.89024788 .00000083 00000-0 68045-4 0 8336
2 15427 99.0539 210.2838 0014080 242.7480 117.2273 14.13620276489174
NOAA-10
1 16969U 86073A   94159.94159500 .00000066 00000-0 46351-4 0 7326
2 16969 98.5100 169.1973 0013720 358.6589   1.4551 14.24888833401436
MET-2/17
1 18820U 88005A   94158.84525915 .00000041 00000-0 23141-4 0 3057
2 18820 82.5399 276.0117 0015611 203.5072 156.5376 13.84716189321067
MET-3/2
1 19336U 88064A   94159.88197195 .00000051 00000-0 10000-3 0 2942

```
2 19336  82.5397 329.5606 0016070 286.8557  73.0807 13.16967913282164
NOAA-11
1 19531U 88089A   94159.92765754  .00000125  00000-0  92190-4 0  6535
2 19531  99.1718 148.6353 0011863 152.0390 208.1421 14.12992576294059
MET-2/18
1 19851U 89018A   94156.51345801  .00000022  00000-0  66163-5 0  2941
2 19851  82.5167 153.2269 0012537 260.2043  99.7701 13.84365397266071
MET-3/3
1 20305U 89086A   94159.25725234  .00000044  00000-0  10000-3 0   688
2 20305  82.5552 276.1489 0005929 323.3208  36.7508 13.04422019221732
MET-2/19
1 20670U 90057A   94157.67818155  .00000038  00000-0  20767-4 0  7998
2 20670  82.5475 216.8127 0015578 170.2858 189.8605 13.84188682199164
FY-1/2
1 20788U 90081A   94159.54859903  .00000285  00000-0  21713-3 0  9884
2 20788  98.8329 179.9524 0016338  35.2398 324.9843 14.01351703192497
MET-2/20
1 20826U 90086A   94157.46205984  .00000049  00000-0  30983-4 0  8073
2 20826  82.5253 154.5153 0015154  76.7190 283.5664 13.83582339186278
MET-3/4
1 21232U 91030A   94156.99788935  .00000050  00000-0  10000-3 0  7050
2 21232  82.5415 177.5026 0011846 211.6813 148.3605 13.16462992149887
NOAA-12
1 21263U 91032A   94159.96392273  .00000157  00000-0  89986-4 0   570
2 21263  98.6185 187.9223 0011859 261.5487  98.4345 14.22414262159367
MET-3/5
1 21655U 91056A   94156.88810524  .00000051  00000-0  10000-3 0  7146
2 21655  82.5508 124.7250 0011681 224.6140 135.4044 13.16830633134975
MET-2/21
1 22782U 93055A   94157.22615171  .00000040  00000-0  22931-4 0  3072
2 22782  82.5494 215.1192 0020724 257.2687 102.6153 13.83008098 38579
POSAT
1 22829U 93061G   94157.72294064  .00000046  00000-0  36383-4 0  2891
2 22829  98.6496 233.6944 0009240 227.5945 132.4448 14.28028083 36200
MIR
1 16609U 86017A   94159.91476795  .00000586  00000-0  15049-4 0  6360
2 16609  51.6469 227.7363 0002167  29.8936 330.2213 15.56279933474759
HUBBLE
1 20580U 90037B   94158.51049335  .00000475  00000-0  32164-4 0  4947
2 20580  28.4699 298.1316 0006090 348.7925  11.2530 14.90619514 27942
GRO
1 21225U 91027B   94157.52483587  .00002122  00000-0  44012-4 0  1050
2 21225  28.4623 306.1697 0003383  95.4692 264.6295 15.40894106 55296
UARS
1 21701U 91063B   94159.22695472 -.00002951  00000-0 -23660-3 0  5383
2 21701  56.9851 194.9643 0005895 100.7728 259.3969 14.96500170149599
/EX
```

Date: 10 Jun 94 04:34:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS$161.MICRO.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT $ORBS-161.D
Orbital Elements 161.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM WA5QGD FORT WORTH,TX June 10, 1994
BID: $ORBS-161.D
TO ALL RADIO AMATEURS BT

Satellite: UO-14
Catalog number: 20437
Epoch time: 94157.23861139
Element set: 0
Inclination: 98.5848 deg
RA of node: 242.1624 deg
Eccentricity: 0.0010423
Arg of perigee: 220.2693 deg
Mean anomaly: 139.7718 deg
Mean motion: 14.29844994 rev/day
Decay rate: -3.8e-07 rev/day^2
Epoch rev: 22802
Checksum: 304

Satellite: AO-16
Catalog number: 20439
Epoch time: 94156.73481228
Element set: 799
Inclination: 98.5957 deg
RA of node: 242.8851 deg
Eccentricity: 0.0010618
Arg of perigee: 223.5361 deg
Mean anomaly: 136.4969 deg
Mean motion: 14.29899297 rev/day
Decay rate: 3.0e-07 rev/day^2
Epoch rev: 22796
Checksum: 359

Satellite: DO-17
Catalog number: 20440
Epoch time: 94156.76023471
Element set: 799
Inclination: 98.5973 deg

```
RA of node:       243.2299 deg
Eccentricity:    0.0010714
Arg of perigee:   222.5466 deg
Mean anomaly:     137.4883 deg
Mean motion:   14.30038782 rev/day
Decay rate:        3.6e-07 rev/day^2
Epoch rev:           22798
Checksum:              328

Satellite: WO-18
Catalog number: 20441
Epoch time:      94157.22514543
Element set:     801
Inclination:       98.5958 deg
RA of node:       243.6917 deg
Eccentricity:    0.0011334
Arg of perigee:   221.5982 deg
Mean anomaly:     138.4365 deg
Mean motion:   14.30012443 rev/day
Decay rate:       -8.1e-07 rev/day^2
Epoch rev:           22805
Checksum:              288

Satellite: LO-19
Catalog number: 20442
Epoch time:      94157.20405622
Element set:     798
Inclination:       98.5980 deg
RA of node:       243.9234 deg
Eccentricity:    0.0011512
Arg of perigee:   222.2726 deg
Mean anomaly:     137.7572 deg
Mean motion:   14.30108993 rev/day
Decay rate:        2.4e-07 rev/day^2
Epoch rev:           22806
Checksum:              297

Satellite: UO-22
Catalog number: 21575
Epoch time:      94157.69084411
Element set:     502
Inclination:       98.4354 deg
RA of node:       232.4004 deg
Eccentricity:    0.0007618
Arg of perigee:   329.4237 deg
Mean anomaly:      30.6509 deg
Mean motion:   14.36917795 rev/day
Decay rate:        4.3e-07 rev/day^2
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Epoch rev:           15157
Checksum:              302

Satellite: KO-23
Catalog number: 22077
Epoch time:      94158.44314725
Element set:     397
Inclination:       66.0817 deg
RA of node:       300.3826 deg
Eccentricity:    0.0014038
Arg of perigee:   289.0245 deg
Mean anomaly:      70.9248 deg
Mean motion:   12.86286506 rev/day
Decay rate:       -3.7e-07 rev/day^2
Epoch rev:            8553
Checksum:              312

Satellite: AO-27
Catalog number: 22825
Epoch time:      94157.72326327
Element set:     296
Inclination:       98.6523 deg
RA of node:       233.6335 deg
Eccentricity:    0.0007784
Arg of perigee:   242.3709 deg
Mean anomaly:     117.6684 deg
Mean motion:   14.27625201 rev/day
Decay rate:        5.0e-08 rev/day^2
Epoch rev:            3619
Checksum:              313

Satellite: IO-26
Catalog number: 22826
Epoch time:      94157.21446021
Element set:     296
Inclination:       98.6522 deg
RA of node:       233.1665 deg
Eccentricity:    0.0008350
Arg of perigee:   244.4511 deg
Mean anomaly:     115.5800 deg
Mean motion:   14.27729220 rev/day
Decay rate:        2.3e-07 rev/day^2
Epoch rev:            3612
Checksum:              270

Satellite: KO-25
Catalog number: 22830
Epoch time:      94157.71795359
```

```
Element set:     301
Inclination:       98.5510 deg
RA of node:       231.0277 deg
Eccentricity:    0.0011336
Arg of perigee:   203.1377 deg
Mean anomaly:     156.9297 deg
Mean motion:   14.28055571 rev/day
Decay rate:        1.1e-07 rev/day^2
Epoch rev:            3620
Checksum:              286

/EX

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Date: 10 Jun 94 04:39:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS$161.WEATH.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT  $ORBS-161.W
Orbital Elements  161.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH,TX June 10, 1994
BID: $ORBS-161.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time:      94159.89024788
Element set:     833
Inclination:       99.0539 deg
RA of node:       210.2838 deg
Eccentricity:    0.0014080
Arg of perigee:   242.7480 deg
Mean anomaly:     117.2273 deg
Mean motion:   14.13620276 rev/day
Decay rate:        8.3e-07 rev/day^2
Epoch rev:           48917
Checksum:              321

Satellite: NOAA-10
Catalog number: 16969
Epoch time:      94159.94159500
Element set:     732
Inclination:       98.5100 deg
RA of node:       169.1973 deg
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```
Eccentricity:    0.0013720
Arg of perigee:   358.6589 deg
Mean anomaly:       1.4551 deg
Mean motion:   14.24888833 rev/day
Decay rate:        6.6e-07 rev/day^2
Epoch rev:           40143
Checksum:              321

Satellite: MET-2/17
Catalog number: 18820
Epoch time:      94158.84525915
Element set:     305
Inclination:       82.5399 deg
RA of node:       276.0117 deg
Eccentricity:    0.0015611
Arg of perigee:   203.5072 deg
Mean anomaly:     156.5376 deg
Mean motion:   13.84716189 rev/day
Decay rate:        4.1e-07 rev/day^2
Epoch rev:           32106
Checksum:              305

Satellite: MET-3/2
Catalog number: 19336
Epoch time:      94159.88197195
Element set:     294
Inclination:       82.5397 deg
RA of node:       329.5606 deg
Eccentricity:    0.0016070
Arg of perigee:   286.8557 deg
Mean anomaly:      73.0807 deg
Mean motion:   13.16967913 rev/day
Decay rate:        5.1e-07 rev/day^2
Epoch rev:           28216
Checksum:              345

Satellite: NOAA-11
Catalog number: 19531
Epoch time:      94159.92765754
Element set:     653
Inclination:       99.1718 deg
RA of node:       148.6353 deg
Eccentricity:    0.0011863
Arg of perigee:   152.0390 deg
Mean anomaly:     208.1421 deg
Mean motion:   14.12992576 rev/day
Decay rate:       1.25e-06 rev/day^2
Epoch rev:           29405
```

```
Checksum:              314

Satellite: MET-2/18
Catalog number: 19851
Epoch time:      94156.51345801
Element set:     294
Inclination:       82.5167 deg
RA of node:       153.2269 deg
Eccentricity:    0.0012537
Arg of perigee:   260.2043 deg
Mean anomaly:      99.7701 deg
Mean motion:   13.84365397 rev/day
Decay rate:        2.2e-07 rev/day^2
Epoch rev:           26607
Checksum:              312

Satellite: MET-3/3
Catalog number: 20305
Epoch time:      94159.25725234
Element set:      68
Inclination:       82.5552 deg
RA of node:       276.1489 deg
Eccentricity:    0.0005929
Arg of perigee:   323.3208 deg
Mean anomaly:      36.7508 deg
Mean motion:   13.04422019 rev/day
Decay rate:        4.4e-07 rev/day^2
Epoch rev:           22173
Checksum:              287

Satellite: MET-2/19
Catalog number: 20670
Epoch time:      94157.67818155
Element set:     799
Inclination:       82.5475 deg
RA of node:       216.8127 deg
Eccentricity:    0.0015578
Arg of perigee:   170.2858 deg
Mean anomaly:     189.8605 deg
Mean motion:   13.84188682 rev/day
Decay rate:        3.8e-07 rev/day^2
Epoch rev:           19916
Checksum:              368

Satellite: FY-1/2
Catalog number: 20788
Epoch time:      94159.54859903
Element set:     988
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Inclination:       98.8329 deg
RA of node:       179.9524 deg
Eccentricity:    0.0016338
Arg of perigee:    35.2398 deg
Mean anomaly:     324.9843 deg
Mean motion:   14.01351703 rev/day
Decay rate:       2.85e-06 rev/day^2
Epoch rev:           19249
Checksum:              359

Satellite: MET-2/20
Catalog number: 20826
Epoch time:      94157.46205984
Element set:     807
Inclination:       82.5253 deg
RA of node:       154.5153 deg
Eccentricity:    0.0015154
Arg of perigee:    76.7190 deg
Mean anomaly:     283.5664 deg
Mean motion:   13.83582339 rev/day
Decay rate:        4.9e-07 rev/day^2
Epoch rev:           18627
Checksum:              323

Satellite: MET-3/4
Catalog number: 21232
Epoch time:      94156.99788935
Element set:     705
Inclination:       82.5415 deg
RA of node:       177.5026 deg
Eccentricity:    0.0011846
Arg of perigee:   211.6813 deg
Mean anomaly:     148.3605 deg
Mean motion:   13.16462992 rev/day
Decay rate:        5.0e-07 rev/day^2
Epoch rev:           14988
Checksum:              323

Satellite: NOAA-12
Catalog number: 21263
Epoch time:      94159.96392273
Element set:      57
Inclination:       98.6185 deg
RA of node:       187.9223 deg
Eccentricity:    0.0011859
Arg of perigee:   261.5487 deg
Mean anomaly:      98.4345 deg
Mean motion:   14.22414262 rev/day
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Decay rate:       1.57e-06 rev/day^2
Epoch rev:           15936
Checksum:              332

Satellite: MET-3/5
Catalog number: 21655
Epoch time:      94156.88810524
Element set:     714
Inclination:       82.5508 deg
RA of node:       124.7250 deg
Eccentricity:    0.0011681
Arg of perigee:   224.6140 deg
Mean anomaly:     135.4044 deg
Mean motion:   13.16830633 rev/day
Decay rate:        5.1e-07 rev/day^2
Epoch rev:           13497
Checksum:              281

Satellite: MET-2/21
Catalog number: 22782
Epoch time:      94157.22615171
Element set:     307
Inclination:       82.5494 deg
RA of node:       215.1192 deg
Eccentricity:    0.0020724
Arg of perigee:   257.2687 deg
Mean anomaly:     102.6153 deg
Mean motion:   13.83008098 rev/day
Decay rate:        4.0e-07 rev/day^2
Epoch rev:            3857
Checksum:              288

/EX

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Date: Thu, 9 Jun 1994 17:28:14 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!spool.mu.edu!sgiblab!
news.cs.indiana.edu!noose.ecn.purdue.edu!constellation.ecn.purdue.edu!
wb9omc@network.ucsd.edu
To: info-hams@ucsd.edu

References <2sg43a$n35@cville-srv.wam.umd.edu>,
<1994May31.225258.26235@newsgate.sps.mot.com>,
<CqpHv1.n0M@news.Hawaii.Edu>purdue.e
Subject : Re: Got card from HH2PK!

jherman@uhunix.uhcc.Hawaii.Edu (Jeffrey Herman) writes:
```

>In article <1994May31.225258.26235@newsgate.sps.mot.com> rapw20@email.sps.mot.com writes:
>>In article <2sg43a$n35@cville-srv.wam.umd.edu> ham@wam.umd.edu (Scott Richard >>Rosenfeld) writes:
>>>
>>> The corners were cut off the return envelope (shredded in machine, or
>>> maybe the US gov't looking for contraband coming OUT of Haiti?), but the

>More than likely it was the Haitian military/government who cut off the corners.

Interesting. Maybe I'm blind but I didn't see this in the callbook. Can U give me an address for this station? (HH2PK)

Duane
wb9omc

Date: (null)
From: (null)
And from the Marianas, SM6FJY will be active as KH0/SM6FJY from tomorrow Monday the 13th, until Sunday the 26th during the first part of his Pacific Islands tour.

Now the rallies for today, Sunday the 12th of June:

The Elvaston Castle National Radio Rally is being held at the Elvaston Castle Country Park. The show ground is five miles south east of Derby on the B5010 road and is well signposted. The rally features many trade stands, covering radio, electronic and computer products, and a bring and buy marquee. Also featured is a craft marquee, a flea market, refreshments, live bands and children's entertainments. Talk-in is on channels S22 and SU22.

The Royal Naval Amateur Radio Society Annual Mobile Rally is at the Sports Field, HMS Collingwood, Fareham, Hampshire. To get there, leave the M27 motorway at junction 11 and follow the A27 to Fareham. Doors open at 10am. The event features many trade stands, a bring and buy sale, a flea market and local club and repeater group stalls. Also featured is an arts and crafts exhibition, a range of entertainment for all the family, and refreshments. Talk-in will be on 2 metres and 70 centimetres.

Next the four rallies we know of for next Sunday the 19th of June:

The Belfast Radio Rally is to be held at the Chimney Corner Hotel, 630 Antrim Road, Glengormley. The rally features the usual trade stands, a

bring and buy stall and many other attractions. For further details phone 0232 471370.

The Bury St Edmunds Amateur Radio Society Car Boot Sale is to be held at the Scout Pavilion Stanton, off the A143 road. Doors open at 10am. The event features trade stands and a Raynet supplies stall. Light refreshments will be available. Talk-in by G2JO is on 2 metres. Further details are available from Jim, G0MEV on 0359 50271.

The Denby Dale and District Amateur Radio Society Annual Mobile Rally is to be held at Shelley High School, which is midway between Huddersfield and Wakefield on the B6116 road, two miles from its junction with the A636, Wakefield to Holmfirth road. Doors open at 11am. The event features trade stands, craft stalls, a bring and buy stall and a car boot sale. RSGB Morse Tests will be available on demand but participants must bring two passport size photographs. Refreshments will be available and talk-in is on channels S22 and SU22. Further details from Phil, G4FSQ on 0484 644872.

The Newbury Car Boot Sale is to be held at the Acland Hall, Cold Ash, near Thatcham, Newbury. The sale starts at 9am, with set-up time from 8am. Talk-in will be on 2 metres channel S22 by GB4NBS. Further information from Richard, G3ZGC on 0635 46241.

The Preston Amateur Radio Society regrets that due to circumstances beyond its control, the Preston Annual Rally planned for the 4th of September has had to be cancelled. For further details contact the Rally Secretary, George, G3ZXC on 0772 718175.

HF contest news now:

The World Wide South American CW Contest finishes at 1500 UTC today, Sunday the 12th. The event covers all bands from 3.5 to 28MHz, excluding the WARC bands. See June RadCom page 19 for further details.

The All Asia CW Contest is scheduled to take place next weekend, starting at 0001 UTC on Saturday the 18th and finishing at 2359 on Sunday the 19th of June. The event covers all bands from 1.8 to 28MHz, excluding the WARC bands. See June RadCom page 19 for further details.

Next some VHF contest news:

The RSGB 70MHz CW Contest takes place today, Sunday the 12th from 0800 to 1100 UTC. For further details see February's RadCom page 83. Immediately following this event, the second RSGB Backpackers 144MHz portable contest takes place. This is an SSB and CW event from 1100 to 1500 UTC. Full details can be found in the January edition of RadCom.

Also today, Sunday the 12th, the third RSGB 24GHz Summer Cumulative Contest takes place from 0900 to 2100 UTC. See April RadCom page 82 for further details.

The RSGB 432MHz FM Fixed and Open Contest is on Saturday the 18th of June from 1800 to 2200GMT. See April's RadCom for details.

Special event stations this week include:

Members of Royal Air Force Finningley Amateur Radio Society will use GB800DON for Doncaster's 800 years Festival Celebration at the Gala event at Cusworth Park. Operation will be from 0800 to 1800 UTC using the HF bands, on CW and SSB and FM and SSB on 2 metres and 70 centimetres. The Locator is IO93JM and the WAB square is SE50.

GB2SM, will be active next Friday the 17th of June, during International QRP Day, from 1000 until 1600 UTC on the 40 and 20 metre bands from the Science Museum. Operation is also planned for next Saturday the 18th and Sunday the 19th on 80, 40 metres bands and 70 centimetre band, to encourage Novice contacts with the station.

GB0TPR, will be aired by the Meirion Amateur Radio Society from the Northern End of the Promenade at Barmouth next Saturday the 18th of June. The occasion is the Three Peaks Sailing and Climbing race from Wales to Scotland. For further information contact Maurice, GW3GKZ on 0341 422447.

And now the solar factual data

The extended period 27th May to the 5th June has seen very low solar activity. No flares of any sort were reported, but continuing geomagnetic activity due to coronal holes and disintegrating filaments have affected the HF bands. Sporadic E has been reported on ten and six metres most days covering all of Europe.

Sunspot indices have been zero every day. A disintegrating filament on the 4th of June added to the very high electron fluence levels and the resulting high geomagnetic activity. Solar flux levels not surprisingly have tended to decline slightly, varying day to day, and averaging 68 units. The 90 day flux mean was 82 on the 4th June. The state has been 'nil nothing to report'.

The geomagnetic Ap indices started quiet on the 27th but rose to storm levels by the 28th and full storm by the 30th, with Ap levels being up to 49 units in Europe. Scottish type auroras were reported and levels were beginning to decline by the 5th June as this bulletin was being prepared. The period averaged Ap indices of 26 units.

The aa indices, as supplied by the British Geological Survey for the 24th to the 30th of May, were unsettled. The 27th, which showed up as a pre auroral enhancement, was very quiet being only 10.6 nanoTeslas. The 28th saw full storm levels of 192 nanoTeslas during the aurora. The period averaged 42.2 nanoTeslas. The X-Ray flux levels, not surprisingly, have dropped to very low levels, being only A1.0 every day. The monthly sunspot mean for May was RI 18.2, with the maximum of 39 on the 17th and a minimum of zero from the 26th to the 31st. The smoothed count for November 1993 is 41.3 +/- 5.

I'll repeat the figures. Spots - 0; Flux - 68; Ap index - 26; X-ray flux - A1.0; Spot mean May RI 18.2.

Now the ionospheric data for Central France:

The F2 daytime critical frequencies at Poitiers, as reported by Meudon {pronounced Mer-Don}, averaged 6.7MHz. The magnetic storm caused levels to drop to only 5.7MHz on the 31st and 1st. The darkness hour lows averaged 2.8MHz. Blanketing E was reported every day, partly due to Sporadic E and the auroras, with the 29th being affected for 8 hours. The darkness hour lows are tending to rise due to the seasonal changes and averaged 2.8MHz.

I'll repeat the figures. Highs - 6.7MHz; lows - 2.8MHz.

Now the ionospheric data for the north:

The F2 daytime critical frequencies at Ekaterinberg have been affected by the magnetic storms and some readings were not possible, but the highs averaged about 6.0MHz and the darkness hour lows 3.1MHz.

The very high levels of electron fluence are affecting some satellites by charging up the outer case with static of such intensity that the computers inside cannot function correctly.

I'll repeat the figures: Highs - 6.0MHz; lows - 3.1MHz.

And lastly the solar forecast:

This week the more active side of the sun will be coming into view. Solar flux levels are expected to be about the 90s, and the geomagnetic activity is expected to decline by the 15th to quiet levels. Summer conditions are now affecting the HF bands. In the south, during daylight, MUFs are expected to be about 21MHz, and the darkness hour lows 14MHz. Northern stations should see better HF band conditions than of late, with the expected decline of magnetic activity, though levels will be slightly down against the south. Sporadic E could be widespread particularly on ten and six metres.

And that is the end of the solar information.

Finally in the main news, SSL has informed the Society that as of last Wednesday morning, the latest callsigns issued were in the G0 Uniform Yankee and G7 Sierra Kilo series, and Novice calls in the 2 0 Alpha India and 2 1 Delta Charlie series.

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GB2RS is prepared by the Radio Society of Great Britain and is broadcast in the 80m, 40m, 6m and 2m bands.
Tel +44 707 659015 Fax +44 707 645105

End of Info-Hams Digest V94 #647
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